

## Power Acoustik MOFO Woofers

Congratulations on your purchase of one of the finest woofers available for your vehicle today.

The MOFO is designed for the serious SPL enthusiast. We developed a new ribbed cone insert (patent pending) to stiffen the cone and lower the resonant frequency. The rib insert also direct-couples to the voice coil former to draw 50% of the heat away from the voice coil to the rib insert (heatsink) and strengthen the bond between voice coil former and the cone. This revolutionary rib insert allows the woofer to handle 56% more power without sacrificing sensitivity. Your competition will never know what hit them.

Please take a few moments to fill out the warranty card and review this manual before installing this woofer for proper connections and box sizes.

### Design Features

Cast aluminum basket

Black wrinkle finish w/ Diamond cut

Non-pressed paper cone w/aluminum rib insert (patent pending)

Large foam rubber surround

1-piece rubber gasket

Conex spider

Woven tinsel lead through spider

Chrome screw terminals

Dual 2 ohm voice coils

SPL:                      10" – 89 dB    12" – 90 dB                      15" – 92 dB

Magnet size:            10"- 270oz.    12" –270oz.                      15" – 340oz.

BASV/Kapton hybrid 18 awg voice coil:

                                  10" - 3"                      12" - 3"                      15" - 4"

Power (RMS watts):    10" – 2400    12" – 2400                      15" - 2600

### Thiele / Small Parameters

	<u>MOFO-10</u>	<u>MOFO-12</u>	<u>MOFO-15</u>
Fs	30 Hz	36.7Hz	33.5 Hz
Vas	0.35 Cu. Ft.	0.73 Cu. Ft.	1.4 Cu. Ft.
Qms	3.36	5.34	7.17
Qes	0.33	0.36	0.51
Qts	0.3012	0.3363	0.4795
Xmax	0.5"	0.7"	0.9"

## Recommended box sizes

Model	Sealed Box Size	Ported Box Size	Tune Freq.	# of Ports	Port (dia x length)
MOFO-10	NA	1.75 cubic feet	40 Hz	1	4" x 9"
MOFO-12	NA	2.4 cubic feet	40 Hz	2	3" x 6.75"
MOFO-15	NA	3.4 cubic feet	40 Hz	2	4" x 8.25"

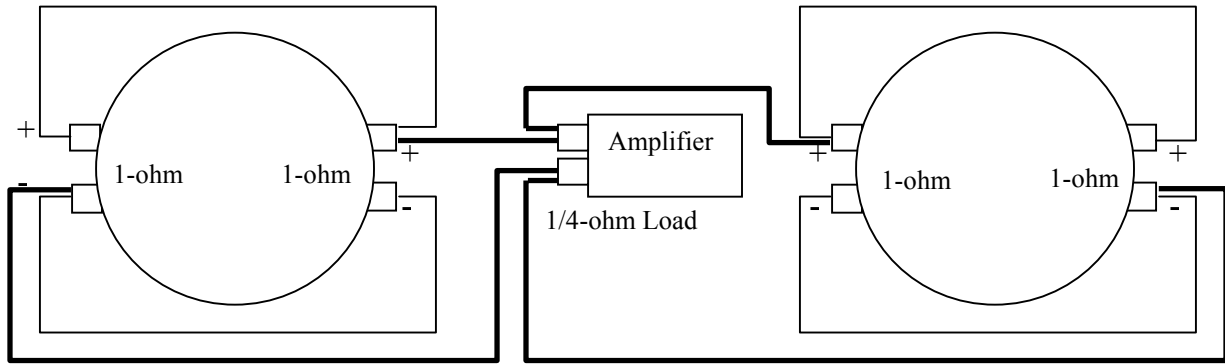
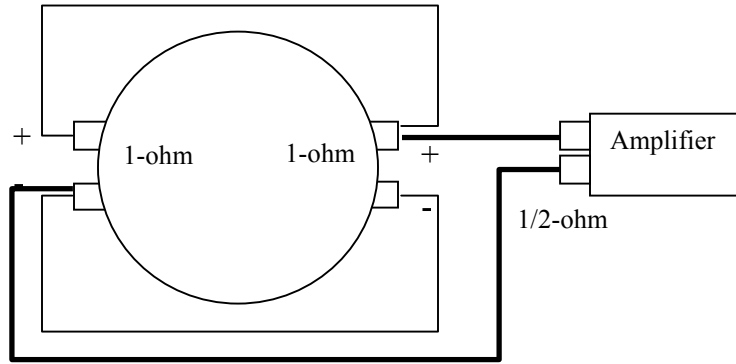
## Building the Enclosure

- Determine the dimensions of your enclosure.
- Be certain the box dimensions that you have designed will fit in the location you have chosen in your vehicle. Sometimes making a cardboard box with the same outside dimensions is helpful.
- It is recommended to use  $\frac{3}{4}$  inch thick MDF (medium density fiberboard) for your box.
- Use a “T” square to verify precise right angle cuts before you assemble the box.
- Use high quality wood glue and screws to assemble the box to guarantee an airtight box that will not come apart due to excess vibration and pressure.
- It is recommended for sealed enclosures to stuff the interior of the box about 50 – 75% fiberglass insulation or Dacron fiberfill for increased sound damping and woofer performance.
- For ported enclosures, it is recommended to staple 1” thick fiberglass insulation to the interior walls of your box.
- Use slide on connectors for spade style connectors or bare wire for push and screw terminals. Do not solder the wires to the factory connectors as this may cause damage to the voice coil or tinsel lead and may void your warranty.

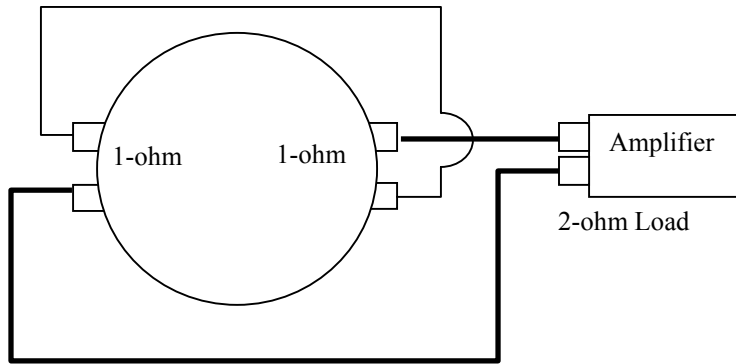
## Recommended wiring

The following page will give you a few different options to match the impedance of the woofers to the impedance capability of the amplifier. Please look and follow the diagrams closely to insure maximum woofer performance.

### Parallel voice coil configuration



### Series voice coil configuration



### Series/Parallel voice coil configuration

